

1. Create an acute angle with $\frac{1}{2}$ " markings and 2.5" sides. Accurately label the degrees for the angle you drew.
2. Create an obtuse angle with $\frac{1}{8}$ " markings and 2" sides. Accurately label the degrees for the angle you drew.
3. Describe how to write an equation in vertex form by looking at the parabola. Give details about how to find the "a" value and how to input the vertex.
4. Do the following parabolas open up or down? Explain how you know.
 - a. $y = 3(x+1)^2 - 4$
 - b. $y = -2(x+4)^2$
 - c. $y = -x^2 + 5$

Name _____

Date _____ Block _____

5. Give the vertex of:

a. $y = 5(x + 3)^2 - 8$

b. $y = -2(x - 8)^2 + 4$

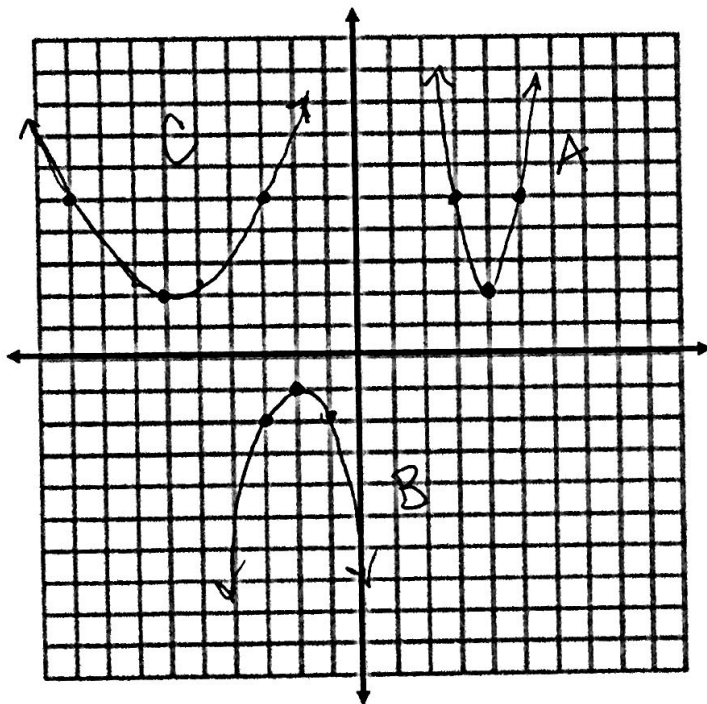
c. $y = x^2 - 6$

6. Determine the equation for each graph.

a.

b.

c.



7. Draw the graph of $y = -4(x + 2)^2 + 5$. Your graph must have at least 3 specific points.

